

WID2001 Knowledge Representation and Reasoning

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Introduction

Frame

- represent stereotypical knowledge about a particular object or concept
- object, attribute and value
- generic and inherited
- combine both declarative and procedural knowledge
- can be developed using object-oriented programming languages such as Java

Aim and Objectives

- To apply the knowledge of frame that we learned in class to make the system
- To apply the concept of frame in a real object
- To represent the object and its attributes in a user friendly manner

Problem Statement

- eases the process in representing the information
- attributes and values of a certain class can be inherited to the instances
- save time and much easier compared to store the same information from the main class or superclass every time a new class is created

Scope

- focus on two brands of Malaysia cars, Proton and Perodua
- search engine might showing results that less relevant and not precise.
- analysis on brand that user prefer, type of car and user's budget

DESIGN (frame and rules sets)

SuperClass

Class: Car Brand Proton Perodua Car Type Sedan Hatchback MPV Name Saga Perdana Persona Prevé Suprima S Iriz Exora Ertiga Bezza Alza Axia Myvi Price RM24000 - RM68110 Class: Alza

Superclass: Car

Brand Perodua

Car Type MPV

Price RM50605-RM62900

1.5 S 1.5 SE 1.5 Advance

Transmission

Auto Manual

Audio Radio & USB & Bluetooth Full with navigation

Seat Material Fabric SE Fabric Leather

Shopping Hook Without With Class: Axia

Superclass: Car

Brand Perodua

Car Type Hatchback

Price

RM24000-RM41500

Type Standard E Standard G

Transmission Auto Manual

Fuel consumption 21.6 22.5

Audio No

Radio & USB Radio & USB & Bluetooth

Seat material Fabric SE Fabric Leather

Rear sensor No

Subclassess

Class: Myvi

Superclass: Car

Brand Perodua

Car Type Hatchback

Price

RM44300-RM55300

Type G H X AV

Engine Size 1.3 1.5

Transmission Auto Manual

Fuel consumption 20.1 20.5

Audio Radio & USB Radio & USB & Microphone Full with navigation

Eco Idle No Yes

Reverse camera No Yes Class: Bezza

Superclass: Car

Brand Perodua

Car Type Sedan

Price RM35500-RM49200

Type GXTRA PREMIUM X ADVANCE

Engine Size 1.0 1.3

Transmission Auto Manual

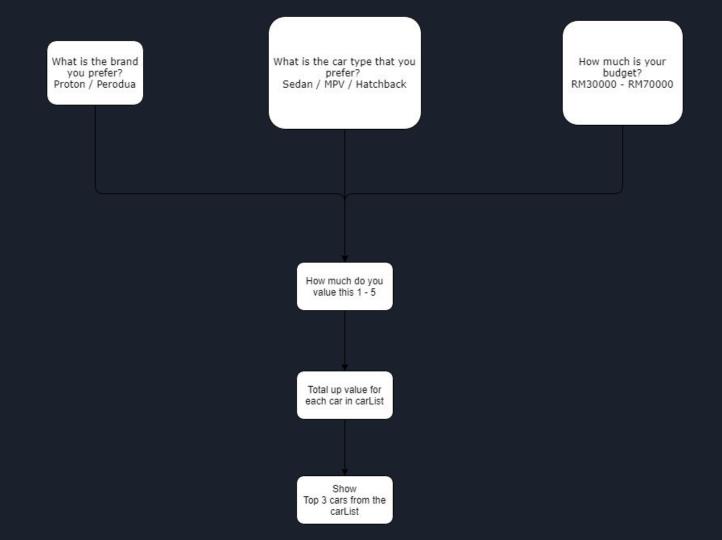
Fuel Consumption 21 21.3

21.7 22 22.8

Audio Radio & USB & Bluetooth Full with navigation

Seat Material Fabric Leather

Rear Headphone Slot Yes Yes + USB



Algorithm and Technique

- Relationship of the frame: AKOe.g. Car (superclass) and Axia (subclass)
- Procedural Informations (Demon): IF-NEEDEDe.g. Price
- Iterationto ensure inference engine keep running

DEMO

QnA Session